

TVERDOVSKIY, N.P., uchitel'

Tasks of a chemistry teacher in connection with the law of the  
preservation of natural resources. Khim. v shkole 16 no.5:36-39  
S-O '61. (MIRA 14:9)

1. Srednyaya shkola No.390, Moskva.  
(Chemistry--Study and teaching)  
(Natural resources)

TVERDOVSKIY, N.P., uchitel'

"Handbook on the use of a screen in chemistry classes" by V.V.Fel'dt.  
Reviewed by N.P. Tverdovskii. Khim. v shkole 16 no.4:91-93  
Jl-Ag '61. (MIRA 14:8)

1. Srednyaya shkola No.390, Moskva.  
(Chemistry--Audio-visual aids)  
(Fel'dt, V.V.)

TVERDOVSKIY, V., kand.sel'skokhozyaystvennykh nauk

"Handbook for agronomists of the non-Chernozem zone. Zemledelie  
23 no.9:85-87 S 61. (MIRA 14:12)  
(Agriculture)

TULAYKOV, Nikolay Maksimovich (1875-1938); BLOKHINA, V.V., red.;  
TVERDOVSKIY, V.P., red.; SOKOLOVA, N.N., tekhn. red.

[Selected works; criticism of grassland farming] Izbrannye  
proizvedeniia; kritika travopol'noi sistemy zemledel'ia.  
Moskva, Sel'khozizdat, 1963. 311 p. (MIRA 16:8)  
(Tulaikov, Nikolai Maksimovich, 1875-1938)  
(Rotation of crops) (Soil science)

VASIL'CHENKO, A.A.; YERKAYEV, A.D.; KONOVALENKO, L.A.; PERVITSKIY,  
V.Ya.; BUD'KO, V.A., inzh., red.; TVERDOVSKIY, V.P., kand.  
sel'khoz. nauk, red.

[Mechanized growing of corn; based on the practices of  
V.IA.Pervitskii's team] Mekhanizirovannoe vozdeleyvanie  
kukuruzy; na opyte zvena V.IA.Pervitskogo. Moskva, Kolos,  
1965. 183 p. (MIRA 18:12)

CA TVERDUN, O. G.

116

Pathophysiological causes of chronic tympanitic obstruction (ear block) in gray Sokol lambs and new observations on pregastric digestion in sheep. V. N. Nikitin, O. G. Tverdun, N. A. Lebedinskii, A. F. Lotko, and V. V. Mamina. *Zhur. Obshchei Biol. (J. Gen. Biol.)* 11, 330-394 (1970). Chronic tympanitic obstruction in sheep changes the microflora of the chyme, hence its fermentation behavior. Hemoglobin count and other characteristics also change. Differences in chyme acids indicate the possibility of better fattening by diet control. Iulian F. Smith

"APPROVED FOR RELEASE: 04/03/2001

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TVRDLN O.G.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001757630002-0"

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2

Change of the rate of gelation of gelatins of various ages as a function of the concentration and the frequency of previous meltings. I. Bulankin and S. Tverduin. *Colloid J. (U. S. S. R.)* 2, 533-7 (1958).— The greater the age of a gelatin the more slowly it sets. The aging of a gelatin is an inverse function of the concn. and a direct linear function of the no. of times it has been remelted under definite conditions. These results show that the aging process involves deep-seated irreversible changes in the disperse phase. P. H. Rathmann

ASM-5LA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SUBSECTION	CLASSIFICATION
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TVERDUNOV, N.G.

Transition of the Zaporozhskii Plant from steam locomotive repair to electric locomotive repair. Zhel.dor.transp. 42 no.4:67-70 Ap '60. (MIRA 13:7)

1. Nachal'nik Zaporozhskogo elektrovosoremontnogo zavoda.  
(Zaporozhye--Railroads--Repair shops)

TVERDOVSKIY, N.P., uchitel'

On the study of the subject of "The periodic law and the periodic system." Khim. v shkole 15 no.4:64-66 Jl-Ag '60. (MIRA 13:9)

1. Srednyaya shkola No. 390, Moskva.  
(Periodic law--Study and teaching)

TVERDUNOV, N.G., inzh. (g.Zaporozh'ye)

Center for the repair of electric locomotives at the Zaporozh'ye Plant.  
Zhel. dor. transp. 43 no. 7:69-70 JI '64. (MIRA 14:7)

1. Nachal'nik Zaporozhskogo elektrovozoremontnogo zavoda.  
(Zaporozh'ye—Electric locomotives—Maintenance and repair)

GERSHMAN, B.M.; IVERDYIN, M.S.

Acute adrenocortical insufficiency following excision of a giant cyst of the adrenal gland and an adrenocorticoid cyst of the small intestine. Probl. endok. i gorm. 10 no.4:68-'70 J1-Ag '64.  
(MIRA 18:6)

1. Khirurgicheskoye otdeleniye (zav.- B.M. Gershman, nauchnyy rukovoditel'- prof. I.I. Bragadze) Gorodskoy bol'nitsy No.54 (glavnyy vrach Ye.P. Mal'tseva), Moskva.

FRIDLAND, M.O., zasluzhennyy deyatel' nauki, prof.; ~~TVERDYNIN, M.S.;~~  
GOLONZKO, R.R.

On the problem of a chondroblastoma. Ortop. travm. i protez, 21  
no. 7:61-65 J1 '60. (MIRA 13:10)

1. Iz otdeleniya travmatologii i ortopedii (zav. - prof.  
M.O. Fridland), patologicheskoy anatomii (zav. - M.S. Tverdynam)  
i rentgenologii (zav. - R.R. Golonzko) Moskovskoy gorodskoy  
bol'nitsy No. 54.

(HUMERUS—TUMORS)

TVERDYNIN, M.S.; CINZBURG, E.M.

Osteoblastic hypernephroid cancer of the kidney. Urologiya.  
29 no.3:49-50 My-Je '64. (MIRA 18:10)

1. Urologicheskoye otdeleniye (zav. - kand. med. nauk E.D. Lev)  
i patologoanatomicheskoye otdeleniye (zav. - M.S. Tverdynin),  
Moskovskoy gorodskoy bol'nitsy No.54.

TVERDYNIN, M.S.; SHTERN, Ye.A.

Leiomyosarcoma of the kidneys. Urologia 25 no. 4:55-56 J1-Ag '60.  
(MIRA 14:1)

(KIDNEYS--TUMORS)

FRIDLAND, M.O.; TVERDYNIN, M.S.

Role of osteoarthritis in the development of hallux valgus.  
Ortop.travm.i protez. 21 no.6:16-20 Je '60. (MIRA 13:12)  
(TOES--ABNORMALITIES AND DEFORMITIES) (ARTHRITIS)



SVADKOVSKIY, B.S.; TVERDYNIN, M.S. (Moskva)

Lethal outcome in dicumarin therapy. Klin.med. 37 no.8:92-97  
Ag '59. (MIRA 12:11)

1. Iz patologoanatomicheskogo otdeleniya (zav. B.S.Svadkovskiy)  
Moskovskoy gorodskoy bol'nitsy No.54 (glavnyy vrach Ye.P.Mal'-  
tseva).

(BISHYDROXYCOUMARIN, effects, injurious)

BERNSHTEYN, M.S., dotsent, kand.tekhn.nauk; TVERDYNINA, M.M., inzh.

Buckling of a circular disk of a constant thickness, jammed in the center as a result of temperature tensions. Nauch. trudy TSNIIMOD no.11:20-32 '61. (MIRA 17:9)

TVIRDYNSKIY, M.A.

Observations on renal blood circulation in frogs subjected to the  
action of ultrasound. Mat. po evol. fiziol. 3:71-73 '58.

(MIRA 12:4)

(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)

(KIDNEYS--BLOOD VESSELS)

TVERDYNISKIY, M.A.

Effect of hypophysectomy on the sensitivity of renal blood vessels  
to adrenalin, acetylcholine, and histamine in frogs. Mat. po evol.  
fiziol. 3:74-79 '58. (MIRA 12:4)

(KIDNEYS--BLOOD VESSELS)

(PITUITARY BODY)

(PHARMACIOLOGY)

TVERDYNISKIY, M.A.

Materials on the mechanism of some reactions to ultrasound in frogs.  
Report No.1: Role of the sympathetic nervous system and hypophysis  
in the reaction of renal blood vessels to ultrasound. Mat. po evol.  
fiziol. 3:61-66 '58. (MIRA 12:4)

(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)

(NERVOUS SYSTEM, SYMPATHETIC)

(PITUITARY BODY)

(KIDNEYS--BLOOD VESSELS)

**TVERDYNISKIY, M.A.**

Materials on the mechanism of some reactions to ultrasound in frogs.  
Report No.2: Effect of ultrasound on renal blood vessels during their  
perfusion with adrenalin, acetylcholine, histamine, and pilocarpine.  
Mat.po evol.fiziol. 3:67-70 '58. (MIRA 12:4)

(KIDNEYS--BLOOD VESSELS)

(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)

(PHARMACOLOGY)

CHUMACHENKO, M.N.; TVERDYUKOVA, L.B.

Microdetermination of active hydrogen by gas chromatography. Dokl.  
AN SSSR 142 no.3:612-614 Ja '62. (MIRA 15:1)

1. Institut khimii prirodnikh soyedineniy AN SSSR. Predstavleno  
akademikom M.M.Shemyakinym.  
(Hydrogen--Analysis) (Gas chromatography)

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POLESKO, O.; TVERIKIN, L.

How to aid the organization of accounting and control locally.  
(MIRA 11:5)  
Den. 1 kred. 16 no.3:50-53 Mr '58.  
(Banks and banking--Accounting)

TVERIKIN, L.

Banks and Banking

Organization of accounting and operations work in State Bank offices, Den. i kred, 11, No. 2  
1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

AUTHORS:

Pavlov, V. P., Tverikin, V. T.

S/183/60/000/01/026/031  
B004/B014

TITLE:

A Frame for the Treatment of Viniplast Foil

PERIODICAL:

Khimicheskiye volokna, 1960, Nr 1, p 67 (USSR)

TEXT: Viniplast foil is used in the synthetic fiber industry and other branches as an antirust coating for reservoirs, machine parts, etc. The sawing of the foil and the trimming before the welding of the seams has hitherto been done manually. The authors describe a new frame developed by them, which has a sliding table on which the clamped viniplast foil is cut by a side-milling cutter. The frame was designed by the EKB (Eksperimental'no-konstruktorskoye byuro - Experimental and Design Office) of the VNIIV and built by the eksperimental'nyy mekhanicheskiy tsekh (Mechanical Experimental Workshop). The operation of the frame in the antikorroziynny tsekh (Anticorrosion Workshop) of VNIIV showed a triple increase in its performance as compared to manual work. The frame is finally illustrated and described. There is 1 figure. ✓

ASSOCIATION: Mytishchinskiy zavod (Mytishchi Works) VNIIV (Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna - All-Union Scientific Research Institute for Synthetic Fibers)

Card 1/1

VIREZUB, A.I.; GLINBERG, M.A.; NOVIKOV, M.A.; TVERIKIN, V.T.; KUPINSKIY, R.V.;  
MARKOV, V.V.; NIVIN, P.I.

Performants of the unit for continuous deaeration of viscose. K.Ln.  
volok. no.1360-54 '61. (MIRA 18:4)

1. Vsesoyuznyy naučno-issledovatel'skiy institut Iskusstvennogo  
volokna (for Virezub, Glinberg, Novikov, Tverikin). 2. Gosudarstven-  
nyy institut Iskusstvennogo volokna (for Kupinskiy). 3. Khar'kovskiy Institut (for Markov, Nivin).

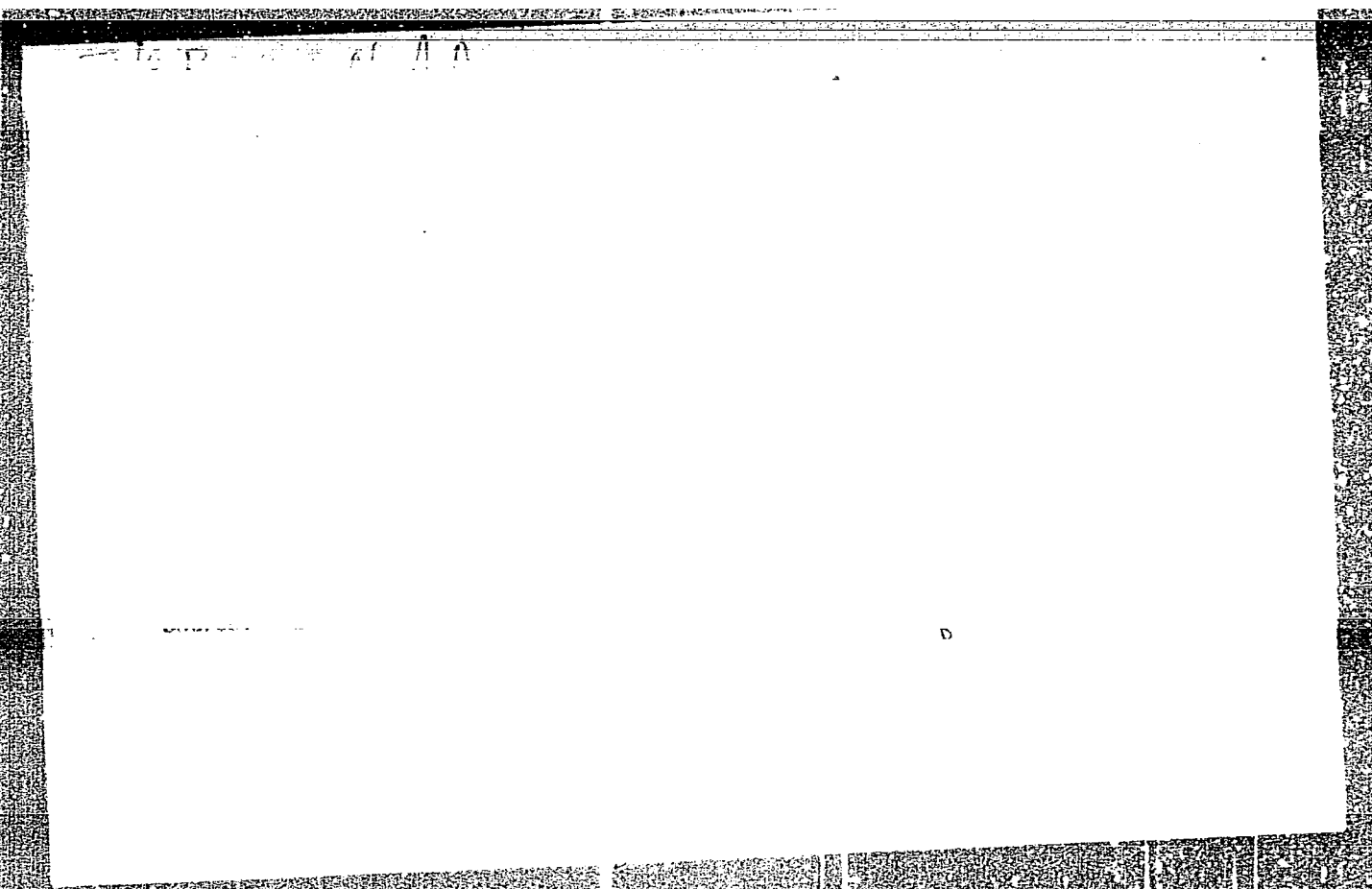
PAVLOV, V.P.; TVERIKIN, V.T.

Machining sheet vinyl plastic. Khim.volok. no.1:67 '60.  
(MIRA 13:6)

1. Mytishchinskiy zavod i Vsesoyuznyy nauchno-issledovatel'skiy  
institut iskusstvennogo volokna.  
(Plastics) (Vinyl compounds)

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001757630002-0"

TVERITIN, A.N., kand.fiz.-mat.nauk. dotsent

Investigating series connected with the equation  $\mu \operatorname{ctg} \mu = \alpha \mu^2 - \gamma$ .  
(MIRA 11:7)

Trudy DIIF no.26:368-411 '58.

(Functions, Transcendental)

SOV/44-59-9-9190

16(1)

Translation from: Referativnyy zhurnal. Matematika, 1959, Nr 9, p 108 (USSR)

AUTHOR: Tveritin, A.N.

TITLE: An Investigation of the Transcendent Equation  $\mu \operatorname{ctg} \mu = \alpha \mu^2 - \gamma$   $\sqrt{2}$

PERIODICAL: Tr. Dnepropetr. in-ta inzh. zh.-d. Transp., 1958, vyp 26, 349-367

ABSTRACT: Not abstracted in the original.

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**APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R001757630002-0"**

TVERITIN, O.M.; ISHLINS'KYY, O.Yu., diysnyy ohlen.

Mathematical consideration of the problem of lateral impact on an elastic-tensile rod with free ends. Dop. AN URSR no.5:307-312 '53. (MLRA 6:10)

1. Akademiya nauk Ukrayins'koyi RSR (for Ishlins'kyy). 2. Dnipropetrovs'kyy instytut inzheneriv zaliznichnoho transportu im. L.M.Kaganovycha (for Tveritin).  
(Mathematical physics) (Elastic rods and wires)

TVERITIN, P.

We are continuing the discussion on technical school graduates.  
Prof.-tekh.obr. 18 no.11:26 N '61. (MIRA 14:11)

1. Zaveduyushchiy nauchno-metodicheskim kabinetom Glavnogo  
upravleniya professional'nogo tekhnicheskogo obrazovaniya  
USSR.

(Vocational education)

USSR/General and Systematic Zoology. Insects. Systematics P  
and Faunistics.

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11526

Author : Tveritina T.A.

Inst : Uzhgorod University

Title : Concerning the Ecology and Distribution of the  
Mountain Species of Snout Beetles.

Orig Pub : Dokl. i soobshch Uzhgorodsk. un-t, 1957, No 1,  
53-56.

Abstract : A list of 15 species of the genus *Otiorrhyncus*,  
endemic for Transcarpathia; an inventory of  
mountain species of 7 other genera of snout beetles,  
and the ecology and distribution of each species.

: 1/1

TVERITINA, T.A.

Weevils of Transcarpathia. Nauk. zap. UzhGU 40:181-187 '59.  
(MIRA 14:4)

1. Uzhgorodskiy gosudarstvennyy universitet.  
(Transcarpathia—Weevils)

TVERITIN, Vasiliy Nikolayevich.

Dnepropetrovsk Inst of Engineers of Railroad Transport  
imeni Kaganovich, Academic degree of Doctor of Technical  
Sci, based on his defense, 4 December 1953, in the Council  
of the All Union Sci Res inst, of his dissertation entitled:  
"Qualitative traits of fuels for steam engines" and the  
Academic Title of Professor. Chair: "Rolling Stock and  
Traction of Trains .

Academic degree: Doctor of Sciences  
Academic title: Professor

SO: Decisions of VAK, List no 6, 19 Mar 55, Byulleten'  
MVO SSSR, no. 14 July 56 Moscow pp 4-22, Uncl.  
JPRS/NY-429

TVERITIN, V.N., doktor tekhn.nauk, prof.

Hardness of coals and their effect on firebox metal. Trudy DIIT  
(MIRA 11:7)

no.26:5-32 '58.

(Coal--Testing) (Locomotives--Fireboxes)



TVERITIN, V. N.

TVERITIN, V.N., professor; SHAPOVALOV, M.I., inzhener.

Quality of coal mixtures prepared in coal mixing stations and  
with a grab crane. Vest.TSNII MPS 16 no.3:48-51 My '57. (MLRA 10:5)  
(Coal)

TVERITIN, V.M. --

"Quality Characteristics of Fuels for Locomotives." Dr Tech Sci,  
All-Union Sci-Res Inst of Railroad Transportation, Moscow, 1953. (  
RZhKhim, No 19, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

TVERITINA, T. A.

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,  
p 130 (USSR) 14-57-6-12696

AUTHOR: Tveritina, T. A.

TITLE: Curculionidae in the Wild Woods of Trans-Carpathia  
(Dolgonosiki, svyazannyye s dikoy drevesnoy rastitel'-  
nost'yu Zakarpat'ya)

PERIODICAL: Nauch. zap. Uzhgorodsk. un-ta, 1956, Vol 16, pp 93-108

ABSTRACT: The article presents a listing of curculionidae found  
in hazelnut, alder, hornbeam, oak, birch, beech,  
willow, spruce, aspen, wild plum, dogwood, and wild  
currant. The following types may be distinguished:  
rare--(r), found in one or two places; isolated--(i),  
found only once; usual--(u) found in many places; and  
common--(c), found everywhere. Concentration of  
curculionidae may also be classified on a five-stage  
scale: 1) individual specimens; 2) a few specimens;

Card 1/2

14-57-6-12696

Curculionidae in the Wild Woods (Cont.)

3) many specimens; 4) very many specimens; 5) masses of specimens. The simultaneous occurrence of both factors in the spread of the species is one of its peculiarities; thus we may encounter at the same time  $r^2$ ,  $o^1$ , etc. The article describes the vertical distribution of the species along different mountain belts, and its distribution in various types of trees.

L. Dinesman

Card 2/2

FASULATI, Kirill Ksenofontovich; TVERITINA, T.A., red.

[Ecology and economic importance of insects; a cycle of lectures on the course "Entomology"] Ekologiya i khoziaistvennoe znachenie nasekomykh; tsikl lektsii po kursu "Entomologiya." Uzhgorod, Uzhgorodskii gos. univ., 1961. 61 p. (MIRA 17:10)

USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6826.

Author : Tveritina, T. A.

Inst : Uzhgorod University.

Title : Weevils, Connected with the Wild Wood Vegetation  
in the Transcarpathian Region.

Orig Pub: Nauchn. zap. Uzhgorodsk. un-t, 1956, 16, 93-108.

Abstract: A list was given of species that were found in 1950-1953 on wood varieties (in all 91 species); the months when they were found, and the zones of their distribution were noted. Some species were found frequently and the density of their population on the plants was very large. Such species were: *Otiorhynchus multipunctatus* (which was found on hazelnut, alder, oak, white beech, birch, beech, willow, pine, maple, nut, black-

Card 1/5

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USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6826.

Abstract: beech, willow, beech, oak, pine, fir, maple, blackthorn); *Ph. argentatus* (on alder, oak, white beech, birch, beech, aspen, blackthorn). The following species were found less frequently and in smaller numbers: *Ph. urticae* (on hazelnut, alden, white beech, willow, blackthorn); *Pol. amoenus* (on hazelnut, alden, white beech, beech, aspen); *Pol. tereticolis* (on the birch, beech, hazelnut, white beech, oak, willow); *Strophosomus melanogrammus* (on alder, birch, beech, white beech, hazelnut). On the hazelnut tree 32 species of weevils were found, among which were mostly representatives of the genus *Phyllobius*, then of the genus *Polydrosus* and the genus *Otiorhynchus*: 19 species were discovered on the alden tree and of the same genera. *Rhynchitus auratus*, usually

Card 3/5

35

USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6826.

Abstract: zone of the plants, with which the insects were connected. *Ot. multipunctus*, which was widely distributed on many plants in all zones, was found more frequently in the plains and foothills than on the mountains where it was more characteristic for herbaceous plants. -- M.N. Kovaleva.

Card 5/5



TVERITINA, T. A.: <sup>2nd</sup> Master Biol Sci (diss) -- "Ecological-faunistic sketch of the curculionidae, coleoptera, of Soviet Transcarpathia". Khar'kov, 1958.  
15 pp (Min Higher Educ Ukr SSR, Khar'kov Order of Labor Red Banner State U im  
A. M. Gor'kiy), 150 copies (KL, No 2, 1959, 120)

TVERITINA, T.A.

Conference on the study of the animal kingdom of the Soviet Car-  
pathians. Zool.zhur. 35 no.9:1440 S '56. (MLRA 9:12)  
(Carpathian Mountains--Zoology)

1. TVERITINOV, A.
2. USSR. (600)
4. Hammers
7. Using PM-50 pneumatic hammer in the machine-tractor station repair shop.  
Tekhsov. MTS. 13 no. 45, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. TVERITINOV, A.
2. USSR (600)
3. Machine-Tractor Stations
4. Using PM-50 pneumatic hammer in the machine-tractor station repair shop.  
Tekhsov. MTS-13 No. 45 - 1952.

9. Monthly list of Russian Accessions, Library of Congress, February, 1953. Unclassified.

BEL'KIND, Lev Davidovich; MOKEYEV, Aleksandr Nikolayevich; TVERITINOV,  
Aleksandr Yevgen'yevich; ASHKENAZI, G.I., red.; YEMZHIN, V.V.,  
tekhm. red.

[Evgenii Pavlovich Tveritinov; his life and work] Evgenii Pav-  
lovich Tveritinov; ocherk zhizni i deiatel'nosti. Moskva, Gos-  
energoizdat, 1962. 117 p. (MIRA 15:7)  
(Tveritinov, Evgenii Pavlovich, 1850-1920)

TVERDOKHLEBOV, I.A., kand. veterin. nauk

Sensibilization in ocular and intracutaneous tubercinization.  
Veterinariia 40 no.10:24-25 0'63. (MIRA 17:5)

1. Poltavskiy sel'skokhozyaystvennyy institut.

KKKEL', B.E.; POSTOL, G.R., glavnyy inzh.; TVERITINOV, A.Ya., red.;  
USHKOVA, M.P., tekhn.red.

[The 4D 19/30 GSD-160-500 diesel-powered generator; description,  
mounting, operation] Dizel'-generator 4D 19/30 GSD-160-500;  
opisanie, montazh, ekspluatatsiia. Moskva, Izd-vo M-va sel'.  
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(Chemistry—Study and teaching)  
(Education, Cooperative)

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M.A., red.izd-va; NEGRIMOVSKAYA, R.A., tekhn.red.

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1. Akademiya nauk SSSR. Institut vostokovedeniya.  
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KOZLOV, A.I.; TYURKOV, S.M.

Methods of conducting test exploitation of gas pools in order  
to obtain precise data to be used in plans for development.  
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KOROTAYEV, Yn.P.; TVERKOVKIN, S.M.

Measuring the pressure and temperature in a gas well. Trudy  
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TVERKOVICH, B. .

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1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

TVERKOVKIN, S.M.

Effect of stabilized gas flow period on gas well testing. Trudy  
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(Gas flow )

124-58-9-10168

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 109 (USSR)

AUTHOR: Tverkovkin, S. M.

TITLE: On the Influence of the Gas-flow Stabilization Period on the  
Results of Tests on Gas Wells (O vliyaniy perioda stabilizatsii  
istecheniya gaza na rezul'taty ispytaniy gazovykh skvazhin)

PERIODICAL: Tr. Vses. n. -i. in-t prirobdn. gazov, 1958, Nr 2 (10),  
pp 69-77

ABSTRACT: Bibliographic entry

1. Gas wells--Test results    2. Gas flow--Stability

Card 1/1

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Using nonstationary hydrodynamic methods for investigating  
gas wells in the Gazli field. Gaz. delo. no.2:3-10 '64.  
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo  
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MARGULOV, G.D.; TVERKOVKIN, S.M.; KHUDYAKOV, O.F.

Problems and certain results of the test exploitation of the  
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1. Bukharaneftegaz (for Margulov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza (for Tverkovkin, Khudiyakov).

MARGULOV, G.D.; TVERKOVKIN, S.M.; KHUDYAKOV, O.F.

Some problems in setting up the Gazli gas field. Gaz. delo no. 7:  
3-5 '64. (MIRA 17:8)

1. Bukharaneftegaz i Vsesoyuznyy nauchno-issledovatel'skiy  
institut prirodnogo gaza.

TVERKOVKIN, S.M.; KHUDYAKOV, O.F.

General study of gas wells of the Gaz'i field in Bukhara Province.  
Gaz. prom. no.10:4-7 0 '58. (MIRA 11:11)  
(Bukhara Province--Gas, Natural--Geology)

*Korobayev Yu. F.*  
11(2)

*Verkhovskiy, V. M.*  
PHASE I BOOK EXPLOITATION

SOV/2253

Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnnykh gazov

Razrabotka i ekspluatatsiya gazovykh mestorozhdeniy, transport gaza (Development and Exploitation of Gas Fields, Transportation of Gas) Moscow, Gostoptekhnizdat, 1959, 353 p. (Series: Its: Trudy, vyp. 5/13/) Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Glavnoye upravleniye gazovoy promyshlennosti pri Sovete Ministrov SSSR.

Eds.: Ye. M. Minskiy and V.N. Raaben; Exec. Ed.: M.P. Martynova; Tech. Ed.: A.S. Polosina.

PURPOSE: This collection of articles is intended for scientists, engineers, and technicians associated with the gas industry.

COVERAGE: The articles discuss the development of gas fields, natural gas recovery, gas transportation, and subsurface gas conservation. Gas field operating conditions are analyzed from the commercial point of view. The author notes that due to the specific geological conditions prevailing in the Soviet Union the application of gas extraction methods of the type used in the USA

Card 1/5



Development and Exploitation (Cont.)

SOV/2253

is not always advantageous. Individual articles discuss problems of the development of gas fields with narrow oil containing fringes, the theory of gas inflow, the study of gas well performance, gas filtration dynamics, and the study of gas condensates. A number of articles are devoted to the study of unstabilized gas flow in pipelines, and discuss theoretical problems connected with the performance of gas ejectors and compressors. The authors also deal with corrosion of the inner surface of gas pipelines. Conclusions made by the authors are supported by mathematical calculations. No personalities are mentioned. References accompany each article.

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Development and Exploitation (Cont.)

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TM/gap  
9-10-59

TVERKOVKIN, S.M.

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Gaz.delo no.11:3-7 '65.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

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GOL'DBERG, K.M.; GEL'FANDBEYN, N.M.; TVERSKAYA, B.I.

Use of indene-coumarone resins in the manufacturing of oil-extended resin lacquers. Lakokras.mat.i ikh prim. no.1:71-72  
'61. (MIRA 14:4)

1. Khar'kovskiy lakokrasochnyy zavod "Krasnyy khimik".  
(Indene) (Resins, Synthetic)  
(Lacquers and lacquering)

TVERSKAYA, D.I.;TIKHOMIROV, M.N., akademik, red.; KLYUCHEVA, T.D.,  
tekhn.red.

[Moscow of the second half of the 17th century, the center  
of the developing all-Russian market] Moskva, vtoroi poloviny  
XVII veka - tsentr skladyvaiushchegosia vserossiiskogo runka.  
Pod red. M.N.Tikhomirova. Moskva, 1959. 123 p.

(MIRA 14:1)

(Moscow--Commerce)



TVERSKAYA, L.A.

Stratigraphic distribution of complexes of Foraminifera in the  
Upper Cretaceous section of the Tuarkyr region. Trudy VSEGEI  
109:172-177 '63. (MIRA 17:7)

TOPCHIEV, A.V.; PAUSHKIN, Ya.M.; KURASHEV, M.V.; POLAK, L.S.;  
TVERSKAYA, L.S.

Polymerization of cycloolefins. Izv.AN SSSR.Otd.khim.nauk  
no.6:1140 J1 '60. (MIRA 13:7)

1. Institut neftekhimicheskogo sinteza Akademii nauk SSSR.  
(Olefins) (Cyclic compounds) (Polymerization)



TVERSKAYA, L. V.; VERNOV, S. N.; SAVENKO, I. A.; TVERSKOY, B. A.; SHAVRIN, P. I.;

"About the fast electron intensity asymmetry in conjugated points at low altitudes". (USSR)

Report submitted for the COSPAR Fifth International Space Science Symposium, Florence, Italy, 8-20 May 1964.

VERNOV, S.N.; SAVENKO, I.A.; SHAVRIN, P.I.; TVERSKAYA, L.V.

Structure of the earth's radiation belts at an altitude of  
320 km. Geomag. i aer. 3 no.5:812-815 S-0 '63. (MIRA 16:11)

Institut yadernoy fiziki Moskovskogo gosudarstvennogo universi-  
teta.

L 3236-66 ENT(1)/FCC/EWA(h) GS/GW

ACCESSION NR: AT5023621

UR/0000/65/000/000/0465/0466

AUTHORS: Savenko, I. A.; Shavrin, P. I.; Tverskaya, L. V.

TITLE: Corpuscular radiation in equatorial regions at low altitudes

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965, Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 465-466

TOPIC TAGS: electron flux, magnetic anomaly, cosmic ray<sup>10</sup>, albedo

ABSTRACT: It is assumed that the intensity of electron flux at low altitudes (300-400 km) in equatorial regions is due to neutron decay in the albedo of cosmic rays. Electrons were captured at different heights. By knowing the latitude and the pitch angle (for known longitude), it is possible to compute the rate of accumulation. It was found that each energy value of electron corresponds to a definite height. Computations of expected intensities of electron flux are shown in Table 1 of the Enclosure. The intensity on ascending branches of the drift orbit is small, since electrons quickly move upward from any given height. The greatest intensity may be expected over the Pacific Ocean and over South America

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(at the western edge of the Brazilian magnetic anomaly). The neutron mechanism proves to be rather potent in creating an intensity of about  $10^3$  per  $\text{cm}^2$  per sec during longitudinal drift. Orig. art. has: 3 tables. [04]

ASSOCIATION: none *na konyatsatsii po fizike kosmicheskogo prostranstva*  
(All-Union Conference on Space Physics).

SUBMITTED: 02Sep65

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Card 2/3

L 3236-66

ACCESSION NR: AT5023621

ENCLOSURE: 01

Table 1. Computations of expected intensities at an altitude of 500 km.

$\lambda^\circ$	$\lambda_0^\circ$	t, sec	$\frac{I}{\text{cm}^2 \text{ sec}}$	$\lambda^\circ$	$\lambda_0^\circ$	t, sec	$\frac{I}{\text{cm}^2 \text{ sec}^{-1}}$
290	332	$1.1 \cdot 10^4$	$1.9 \cdot 10^8$	154	54	$3.3 \cdot 10^4$	$6 \cdot 10^8$
268	350	$9.4 \cdot 10^3$	$1.7 \cdot 10^8$	123	68	$2 \cdot 10^4$	$3.6 \cdot 10^8$
224	18	$6.9 \cdot 10^3$	$1.3 \cdot 10^8$	100	100	0	0

$\lambda$  is the longitude of observation;  $\lambda_0$  is the longitude at which electrons with energies greater than 300 kev begin to accumulate after passing the longitude of observation; t is the drift time from  $\lambda_0$  to  $\lambda$  (time of accumulation); and I is the intensity at the point  $\lambda$ .

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5.1150 1043, 1273, 1320

S/020/61/137/005/014/026  
B104/B214

AUTHOR: Tverskaya, L. V.

TITLE: The influence of elastic-relaxation stresses on the crystallization of highly viscous liquids

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 5, 1961, 1095-1097

TEXT: It is known that in amorphous media the elastic stresses die out within a certain relaxation time. Therefore the elastic stresses influence the growth of a crystal only for a short time ( $\tau$ ). The relation between the time  $\tau$  and the time  $\tau_0$  required by an atom for the transition from the liquid to the solid state is normally such that  $\tau \sim n^2 \tau_0$ . For highly viscous liquids  $\tau > 10 \tau_0$ . In the present paper it is assumed that the crystal grows spherically and the stress on the boundary of the surface of the crystal is as that produced during growth due to the change in the density:  $\sigma_{rr}(R) = -\delta p$ . In the presence of such a stress the temperature of the crystal decreases during growth in

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B104/B214

The influence of elastic-relaxation ...

agreement with the Clausius-Clapeyron equation. If the crystallization is carried out at a temperature  $T_1$ , a crystal of radius  $R$  is in equilibrium with the medium when  $\sigma_{rr}(R) = \left( \frac{T_0 - T_1}{T_0} q \rho_2 - 2\alpha/R \right) \frac{1}{3\beta} \equiv \sigma_{rr}^{(0)}$  (1).

Here,  $T_0$  is the melting point of the undeformed surface,  $q$  the heat of transition per gram,  $\alpha$  the coefficient of surface stress, and  $3\beta$  the relative change in density on crystallization. If  $\sigma_{rr}(R) > \sigma_{rr}^{(0)}$ , the crystal melts. If  $\sigma_{rr}(R) < \sigma_{rr}^{(0)}$ , the crystal grows, the characteristic time of the processes being  $\tau_0$ . Under definite

conditions Eq. (1) may be fulfilled. Then the growth of the crystal is subjected to relaxation stresses. The growth of a crystal subjected to the above processes is investigated, (1) being calculated from the boundary conditions. It is assumed that Hook's law is obeyed in the crystal and the elastic relaxation stresses appearing in the amorphous phase are given by an interpolation formula for highly viscous liquids. Then the equation obtained for the growth of the crystal is:

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таким образом, из уравнения (9) получаем

$$\left(\frac{1+\sigma_1}{2E_1} + \frac{1-2\sigma_2}{E_2}\right) \frac{d}{dt} R^3 \left(\frac{T_0-T_1}{T_0} q\rho_2 R - 2\alpha\right) + \frac{1}{\tau} R^3 \frac{1+\sigma_1}{2E_1} \left(\frac{T_0-T_1}{T_0} q\rho_2 R - 2\alpha\right) = 3\beta^2 R^2 \frac{dR}{dt}. \quad (9)$$

The indices 1 and 2 refer to the different phases. For the initial condition  $R_{t=0} = R_1$  Eq. (9) has the following solution:

For the initial condition

$$R \left(\frac{R-R_0}{R_1-R_0}\right)^v = R_1 e^{-t/\tau_1}, \quad (10)$$

where

$$R_0 = \frac{2\alpha T_0}{(T_0-T_1) q\rho_2} \quad (\text{критический размер зародыша});$$

$$v = \frac{1}{2} \left(1 - \frac{3\beta^2 E_1 E_2 T_0}{q\rho_2 (T_0-T_1) [(1+\sigma_1) E_2 + (1-2\sigma_2) E_1]}\right),$$

$$\tau_1 = 2\tau \left(1 + \frac{2E_1}{E_2} \frac{1-2\sigma_2}{1+\sigma_1}\right). \quad (11)$$

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holds. If  $0 > \nu > -1$  then it holds  $\dot{R} < 0$  for the condition  $R < R_0/(1 - \nu)$ . Under these conditions (1) is fulfilled and the growth of a crystal is determined by the relaxation of the elastic stresses. For  $\nu < -1$ , the increase of the elastic stresses limits the growth of the crystal. Then the following approximate result holds:  $R \sim \exp(-t/\tau_1(\nu + 1))$ . For  $\nu \geq -1$ ,  $\tau_0$  is the characteristic time of growth. A generalization of the results obtained states that for  $\nu < -1$ , the time of the growth of the crystal is equal to  $\tau_1(\nu + 1) + \tau_0$  and for  $\nu > -1$  it is  $\tau_0$ . Since, according to Stark,  $\tau_0$  and  $\tau_1$  depend on the temperature, the rate of crystallization is also essentially temperature dependent. Finally, it is shown that the maximum rate of crystallization is reached at a certain degree of supercooling and that according to the above results, the relaxation processes of the elastic stress play an essential role and not the small rates of fluctuation during a weak supercooling, as was previously stated. There are 3 Soviet-bloc references.

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